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PATENTAttorney Reference Number 23-65304
Application Number 09/209,541Claims

1-30. (Cancelled)

31. (Previously presented) A biodegradable thermally reversible graft copolymer, comprising:

- a. a biodegradable polymer; grafted with
- b. a side chain selected from the group consisting of homo-oligomers of [meth-]acrylamide derivatives and co-oligomers of [meth-]acrylamide derivatives copolymerized with hydrophilic comonomers
- c. said biodegradable thermally reversible graft copolymer forming a reversible gel.

32. (Original) The copolymer as recited in claim 31, wherein said biodegradable copolymer is selected from the group consisting of polyaminoacids, poly(phosphazenes), poly(caprolactone), polypeptides, polysaccharides and combinations thereof.

33. (Original) The copolymer as recited in claim 31, wherein said oligo [meth-]acrylamide derivative is an N-alkyl substituted [meth-]acrylamide derivative.

34. (Original) The copolymer as recited in claim 31, wherein said oligo [meth-]acrylamide derivative side chain is randomly copolymerized with a hydrophilic comonomer as a linear random oligomer, said linear random oligomer having molecular weight less than a minimum gelling molecular weight cutoff.

35. (Original) A reversible gelling copolymer solution, comprising the copolymer as recited in claim 31, mixed with an aqueous solvent.

36. (Original) A therapeutic agent carrier, comprising:
the copolymer solution as recited in claim 35, mixed with a therapeutic agent.

37-46. (Cancelled)